Sincock Goes Digital

A GIS Window To The Master Surveys of The 1958-64 Back Bay Currituck Sound

15 December 2005

Sincock Reports

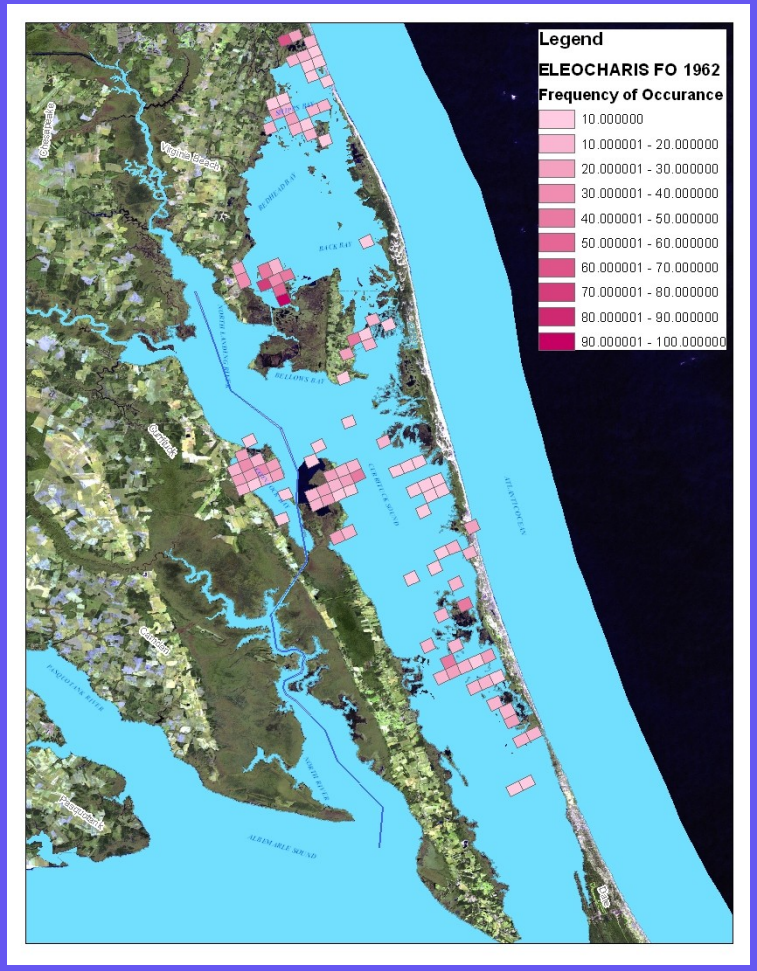
- Excellent Source of Historic Currituck Sound Data
  - 5 years of extensive data collection
  - 5 Volumes of data reports
- Analog Data Difficult to Access
  - No final report published
  - Confusing format
    - Example Vegetation Transect Maps found in the Fish Study Volume

Analog vs. Digital Data

Potential Queries

- Historic Presence: Cells where plants were found
  - Limit presence to high frequencies
  - All SAV, (exclude chara sp. as nonvascular)
  - Keynote species: valiseneria
- Historic Diversity: cells with several species present
- Persistence: cells with SAV present in all years sampled

Example Maps

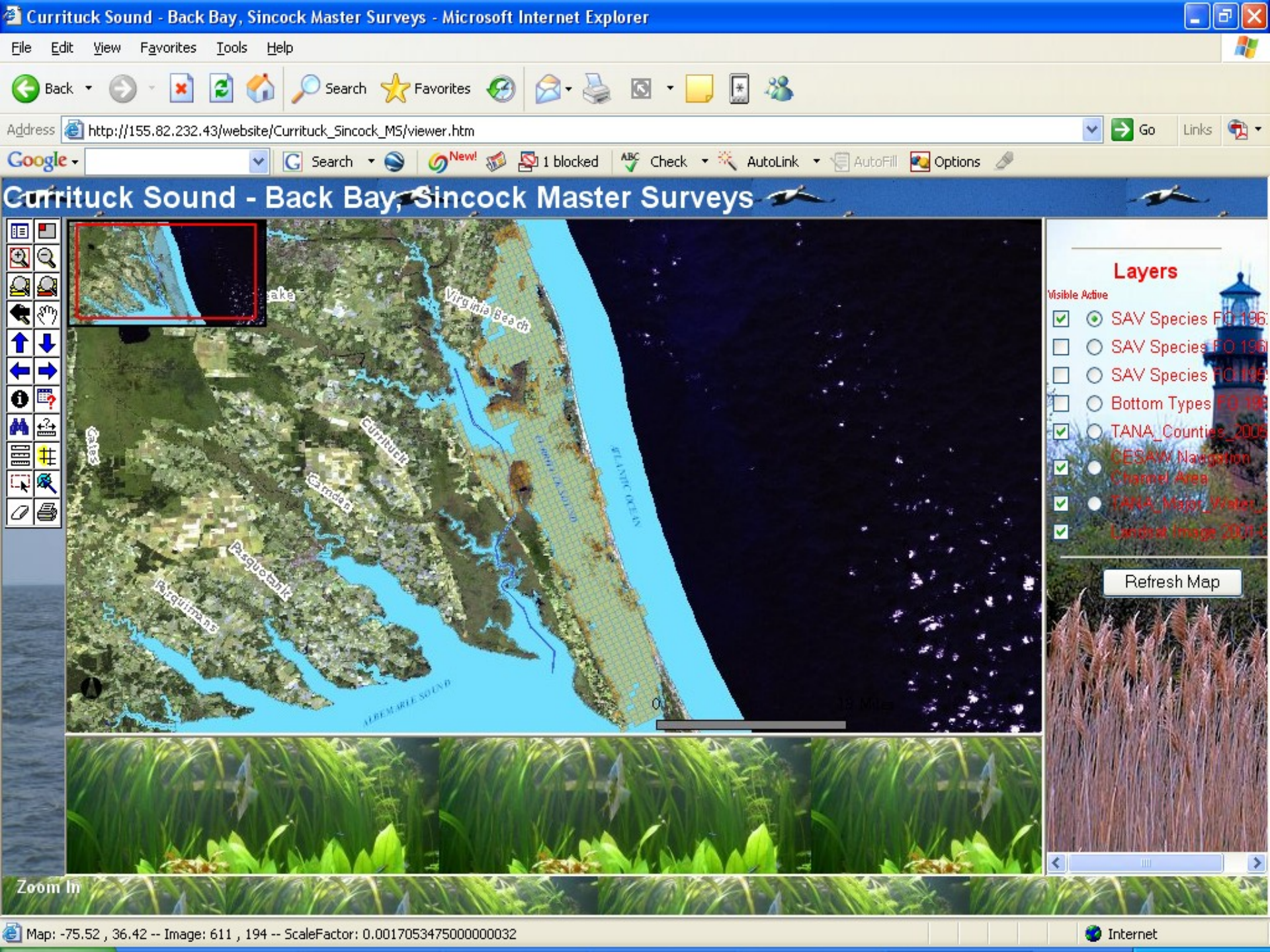


Potential Analysis

- Overlay on ECSU Current SAV as Base Map
  - Pioneering: Do collections of historically devoid sites now have plants?
  - Degradation: Do collections of historically vegetated sites now exist that are devoid of SAV
- Examine Site Conditions for Identified Sites
  - Plot occurrences of a given vegetation or soil condition by average depth

Potential Uses

- Easy access to Historic Data from the study area.
- Identify areas for detailed field analysis
  - Sincock compiled grids with high silt frequency into 8 sample areas
    - Average silt depth for each site was computed based on 50 random samples.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ATLANTIC OCEAN
Layers
Visible Active
SAV Species FO 1961
SAV Species FO 1960
SAV Species FO 1952
Bottom Types FO 19
TANA_Counties_2005
CESAW Navigation Channel Area
TANA_Major_Water_
Landsat Image 2001
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Zoom In
Map: -75.52 , 36.42 -- Image: 611 , 194 -- ScaleFactor: 0.0017053475000000032
Internet

Sincock Master Survey IMS

http://155.82.232.43/website/Currituck_Sincock_MS/viewer.htm

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